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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/942,891	08/30/2001	Kenneth J. Gruys	11899.0155.DVUS02 (MOBT:1	1012	
75	90 07/07/2004		EXAM	INER	
Patricia A. Kammerer, Esq.			KRUSE, I	KRUSE, DAVID H	
	ON ARNOLD & WHITE	LLP			
750 Bering Drive			ART UNIT	PAPER NUMBER	
Houston, TX 77057-2198			1638		

DATE MAILED: 07/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/942,891	GRUYS ET AL.				
Office Action Summary	Examiner	Art Unit				
	David H Kruse	1638				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPORTED THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. INTHS ANDONED (35 U.S.C. § 133)				
Status						
1)⊠ Responsive to communication(s) filed on <u>03 May 2004</u> .						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 42-46 is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) Claim(s) is/are allowed. 6) Claim(s) 42-46 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on 2/30/21 is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination.	cepted or b) objected to e drawing(s) be held in abeya ction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 	nts have been received. Its have been received in Apprint documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail Date nformal Patent Application (PTO-152) 				

STATUS OF THE APPLICATION

- 1. This Office action is in response to the Amendment and Remarks filed 3 May 2004.
- 2. The Examiner approves the drawings filed 30 August 2001.
- 3. The objections to the specification are withdrawn in view of Applicant's amendments.
- 4. Those rejections not specifically addressed in this Office action are withdrawn in view of Applicant's amendments to the claims.
- 5. The rejection for obviousness-type double patenting over U.S. Patent 5,942,660 is withdrawn. The Terminal Disclaimer filed 3 May 2004 has been approved and made of record.
- 6. The rejections of the claims under 35 USC 102(b) are withdrawn in view of Applicant's amendments to the claims.
- 7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Oath/Declaration

8. The oath or declaration remains defective. A new oath or declaration in compliance with 37 CFR § 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration remains defective because of the issues put forth in the previous Office action. Applicant states in the response that the instant application is a divisional of previously filed U.S. Patent Application Serial No. 09/313,123 and that

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Applicants included copies of the declarations executed by the inventors in the previously filed application (Serial No. 09/313,123) when filing the instant application. Applicants also argue that the Updated Filing Receipt appears to indicate the correct domestic priority data (page 6 of the Remarks). This argument is not persuasive because the filing receipt does not constitute compliance with 37 CFR § 1.76(b)(5), and the Request for Filing Divisional Application, filed 30 August 2001, does not contain a section directed to Domestic Priority Information, only a section directed to an amendment to the specification (item 11). The information directed to domestic priority in the Declaration of record is incorrect; U.S. Application No. 06/673,388 was not filed 28 June 1996, but in fact filed in 1984 and does not share continuity with the instant application as is required under 35 U.S.C. § 120. Applicant can remedy the instant situation by either filing a corrected Declaration, or alternatively filing a Supplemental Application Data Sheet (see 37 CFR § 1.76 (c) and (d)).

Claim Rejections - 35 USC § 112

9. Claims 42-46 remain rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. This rejection is repeated for the reason of record as set forth in the last Office action mailed 29 January 2004. Applicant's arguments filed 3 May 2004 have been fully considered but they are not persuasive.

Applicants argue that amino acid positions are commonly used by those of skill in the art to refer to particular locations within a protein or peptide sequence that amino acid numbering starts at the N-terminus of the protein or peptide, and increases by one

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with each additional amino acid residue (i.e. the amino acid at the N-terminus is position 1, the next amino acid is position 2, and so on) and that this information on amino acid position numbering can be found in all basic biochemistry textbooks. Applicants further argue that the claims at each instance refer to the amino acid number relative to the wild type protein, i.e., the amino acid sequence found in nature (page 8, 4th paragraph of the Remarks). This argument is not found to be persuasive because amino acid positions are relative to the protein in which they occur, as such, amino acids in proteins having the same function from different organisms can and often do have different positional locations due to natural variations in the amino acid sequence. Therefor the claims contain relative limitations that do not teach the metes and bounds of the claimed invention. Applicant states that the nucleic acid sequence of SEQ ID NO: 1 encodes the wild type threonine deaminase protein of E. coli on page 143, line 5. The Examiner suggests that the claims be amended to replace "of the wild type protein" with -- relative to said position(positions) in the protein encoded by SEQ ID NO: 1 -- to overcome this rejection.

Claims 44 and 46 remain rejected as unclear if the claimed recombinant host cell or transgenic plant has been transformed with a nucleic acid encoding a threonine deaminase protein. Applicant states that claim 44 has been amended to indicate that the threonine deaminase protein has an amino acid sequence that is a variant relative to the wild-type protein that would be present naturally in a cell of the same species (page 9, 4th paragraph of the Remarks, and similarly on page 10, 1st paragraph for claim 46). This is not found to be persuasive and appears to miss the point of the rejection.

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The Examiner suggests that the phrase "a nucleic acid sequence" at line 1 be amended to read -- an isolated or recombinant nucleic acid --, such a limitation would also be consistent with claim 42.

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR § 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR § 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 11. The claims are free of the prior art, which neither teaches nor suggests a nucleic acid encoding a threonine deaminase with the claimed amino acids at positions 447 and/or 481 relative to said positions in the protein encoded by SEQ ID NO: 1.
- 12. No claims are allowed.

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13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Kruse, Ph.D. whose telephone number is (571) 272-0799. The examiner can normally be reached on Monday to Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Amy Nelson can be reached at (571) 272-0804. The fax telephone number for this Group is (703) 872-9306 Before Final or (703) 872-9307 After Final.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group Receptionist whose telephone number is (571) 272-0547.

David H. Kruse, Ph.D.

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2 July 2004

14. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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